BOSCHE
WEIGHING SYSTEMS

Shear beam load cell *K24N*

Features

- Material: stainless steel
- Nominal load: 1000 - 10,000 kg
- Hermetically enclosed - laser-welded, protection class: IP65
- Construction: The measuring element is hermetically encapsulated and output current calibrated
- Particularly robust for tough continuous use in industrial applications
- Force introduction by means of a countersunk through-hole
- Compatible with other manufacturers
- Optionally calibratable

Scope of application:

- Larger platform scales
- Floor scales
- Hopper scales
- Silo scales
- Big bag scales
- Checkweighers
- For force measurements in the testing machine and process industry

+49 (0) 5491.999.689.0
www.bosche.eu

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WEIGHING SYSTEMS

Shear bem load cell *K24N*

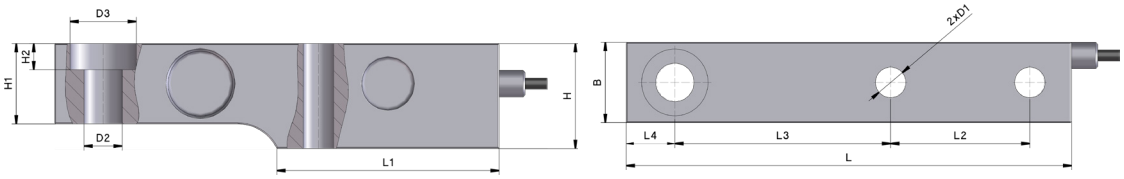
Calibratable shear beam load cell for industrial scales

The K24N shear beam load cells are among the most widely used sensors in weighing technology. The load cells are made of high-alloy stainless steel and are characterised by high accuracy and linearity. The K24N load cells deliver extremely precise and reproducible measurement results even in long-term use in harsh industrial environments.
As standard, the load cells are output current calibrated, which enables easy and accurate parallel connection of several load cells. The shear beam load cell is laser welded and meets the requirements of protection class IP65.

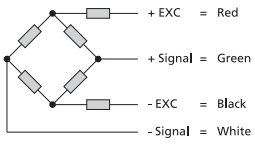
TECHNICAL DETAILS

Accuracy class according to OIML R 60		C3
Nominal load (E_{max})	kg	1.000, 2.000, 5.000, 10.000
Number of division values (n_{LC})		3000
Nominal characteristic value (Cn) / characteristic value tolerance	mV/V	2,0 / ± 0,004 mV/V
Minimum preload (E_{min})		0
Characteristic value of the relative minimum division value d. WZ (Y = Emax / vmin):		10.000 % von Emax
Limit load (EL)		150 % von Emax
Breaking load (Ed)		200 % von Emax
Recommended supply voltage (Uref)	V	5 - 12
Maximum permissible supply voltage (BU)	V	15
Zero adjustment		± 3 % v. Cn
Input resistance (RLC) at reference temperature	Ω	350 ± 3.5
Output resistance (RO) at reference temperature	Ω	350 ± 3.5
Insulation resistance	MΩ	>5.000
Cable length		5 m
Nominal temperature range (BT)	°C	- 10 ... + 40
Protection class according to (DIN 40.050 / EN 60529)		IP 65
MAll dimensions in mm Subject to technical changesal		Stainless steell

TECHNICAL DRAWINGS



Electrical connection
4-wire cable



Nominal load, t	L	L1	L2	L3	L4	B	D1	D2	D3	H	H1	H2
0.5, 1, 2, 3	203	95	64	98	22	36.6	13	16	32	43	36.6	8
5	235	110	66	124	22	48	21	16	32	52	36.6	8

All dimensions in mm I Subject to technical changes

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